

## Network Polymers MS 200 Styrene Methyl Methacrylate Copolymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Polystyrene (PS) , Styrene/Methyl Methacrylate Copolymer (SMMA)

**Material Notes:**

Description: Styrene Methyl Methacrylate Copolymer Information provided by Network Polymers Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Network-Polymers-MS-200-Styrene-Methyl-Methacrylate-Copolymer.php](http://www.lookpolymers.com/polymer_Network-Polymers-MS-200-Styrene-Methyl-Methacrylate-Copolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.11 %	0.11 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955
Melt Flow	2.0 g/10 min @Load 5.00 kg, Temperature 200 °C	2.0 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength, Yield	57.23 MPa	8301 psi	2 in per min; ASTM D638
Elongation at Break	3.0 %	3.0 %	chs 2 in/min; ASTM D638
Flexural Modulus	3.13 GPa	454 ksi	ASTM D638
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	0.125 inch bar; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	76.1 °C	169 °F	ASTM D648
Vicat Softening Point	97.7 °C	208 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	ASTM D1003

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